## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

## **LISTING OF CLAIMS**:

input;

1. (Currently amended) A receiver comprising: analog-to-digital circuitry for generating a digital representation of a signal at an

adjustable gain control circuitry for receiving a radio signal and outputting an amplified analog signal using a gain determined by a magnitude of the signal at <u>anthe</u> outputinput of the analog-to-digital circuitry; and

digital channel filtering circuitry for filtering said digital representation; and digital processing circuitry for processing the output of said digital representation.

- 2. (Original) The receiver of claim 1 wherein said analog-to-digital circuitry generates an output having a plurality of bit values and the gain applied by the adjustable gain control circuitry is determined responsive to one or more of the bit values.
- 3. (Original) The receiver of claim 2 wherein said gain is reduced by a first amount responsive to a most significant of said bit values indicating that the analog-to-digital converter has exceeded a first saturation threshold.
- 4. (Original) The receiver of claim 3 wherein said automatic gain control circuit applies says first gain reduction independent of said digital processing circuitry.

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- 5. (Original) The receiver of claim 3 wherein said gain is reduced by a second amount responsive to a set of most significant bits of said bit values indicating that the analog-to-digital converter has exceeded a second saturation threshold.
- 6. (Original) The receiver of claim 2 wherein said gain is increased responsive to a set of most significant bits of said bit values indicating that the analog-to-digital converter is below a threshold.
- 7. (Currently amended) A method of receiving a signal in a receiver, comprising the steps of:

generating a digital representation of a signal at an <u>output</u> of a analog-todigital converter after applying a gain to the signal;

adjusting the gain responsive to the magnitude of the digital representation of said output of said analog-to-digital converter;

generating a filtered digital representation for a desired channel; and processing the filtered digital representation.

- 8. (Original) The method of claim 7 and wherein said adjusting step comprises the step of adjusting the gain responsive to one or more bit values of said digital representation.
- 9. (Original) The method of claim 8 wherein said adjusting step includes the step of adjusting the gain by a first predetermined amount responsive to the value of a most significant bit of said bit values.
- 10. (Original) The method of claim 9 wherein said adjusting step includes the step of adjusting the gain by a second predetermined amount responsive to a set of most significant bits of said bit values.

## Please add the following new claims:

- 11. (New) The receiver of claim 1 wherein said output of the analog-to-digital circuitry is directly connected to an input of said adjustable gain control circuitry.
- 12. (New) The method of claim 8 wherein the magnitude of the digital representation is received via a direct connection to said output of said analog-to-digital circuitry.
  - 13. (New) A receiver comprising:

adjustable gain control circuitry for receiving a radio signal and outputting an amplified analog signal using a gain determined by a magnitude of a signal at an output of the analog-to-digital circuitry;

digital channel filtering circuitry for filtering said digital representation; and digital processing circuitry for processing the output of said digital representation.

- 14. (New) The receiver of claim 13 wherein said adjustable gain control circuitry is coupled to receive an output signal from at least one low pass filter.
- 15. (New) The receiver of claim 14 wherein at least one input of said at least one low pass filter is coupled to an output of at least one mixer.
- 16. (New) The receiver of claim 15 wherein at least one input of said at least one mixer is coupled to an output of an amplifier.
- 17. (New) The receiver of claim 16 wherein an input of said amplifier is coupled to an output of a bandpass filter.
- 18. (New) The receiver of claim 14 wherein said at least one low pass filter comprises two low pass filters.

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- 19. (New) The receiver of claim 13 wherein said adjustable gain control circuitry comprises two gain control circuits.
- 20. (New) The receiver of claim 13 wherein said output of the analog-to-digital circuitry is directly connected to an input of said adjustable gain control circuitry.
- 21. (New) The receiver of claim 13 wherein said analog-to-digital circuitry comprises two analog-to-digital circuits, one of said analog-to-digital circuits having an output directly connected to an input of said adjustable gain control circuitry.